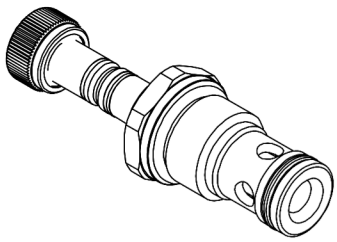
Poppet Valves E10N-20 Electric Valve

Solenoid valve 2 ways 2 positions, poppet pilot operated, normally closed.

Description

Electric cartridge valve on/off design to hold the load or block flow at high-pressure application, where low leakage is requested.



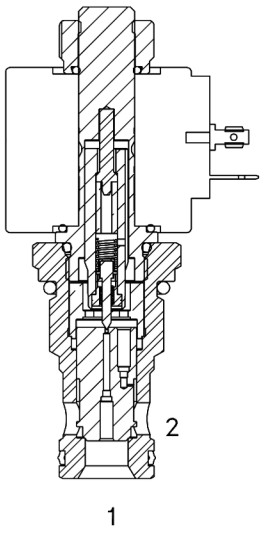
Operation mode

COIL NOT POWERED: the valve in closed position blocks the flow from 2 to 1.
COIL POWERED: the valve allows flow from 2 to 1.

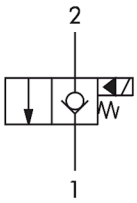
General Data

Weight without coil: 0,26kg. (0,58lbs)
Ambient temperature range: -30c° a 60c° with standard seals (NBR).
Max.proof pressure: 420 bar (6.090 psi).
Flow Max: 150 1/min (40 gpm).
Cartridge materials: high strength steel, internal paerts hardened and grinding.

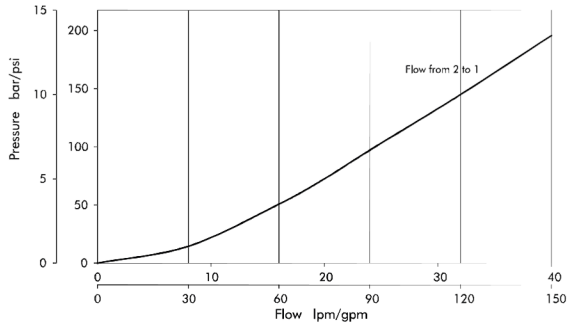
Drawing



Hydraulic Symbol



Oil viscosity: 32cSt/200 Fluid temperature: 40° C

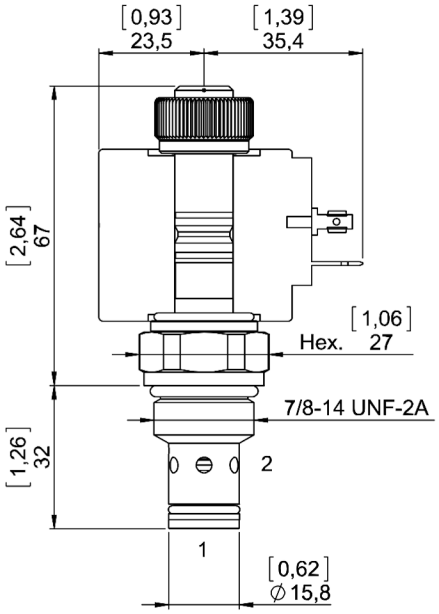


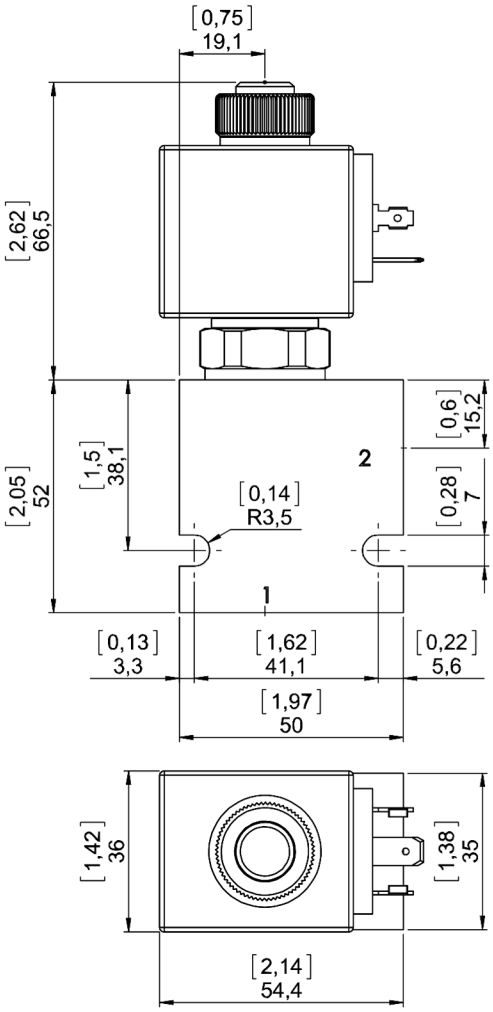
TECHNICAL DATA	
HYDRAULIC	
Max. working pressure:	350 bar (5.075 psi)
Flow rate:	min 5 l/min (1,3 gpm) max 150 l/min (40 gpm)
Fluid: *Viscosity:*	Mineral based oil From 15cSt to 250 cSt
Leakage:	0,25 cc/min (5 drops/min) P max. 350 bar (5.075 psi)
Standard seals:	O-ring NBR Seals Polyurethane
Cavity:	SCN1220
Installation torque:	60 N/m
Coil nut torque:	2 N/m
Max contamination level:	NAS 8 ISO 4406 19/17/14
Fluid temperature range:	From -20 to +80 C°
Fatigue cycle life:	1.000.000 cycle at 350 bar
Seal kit std.:	K122N00
ELECTRIC	
Type of voltage:	DC
Insulation index:	H
Nominal voltage:	+/- 10 %
Power at 20 C°:	22 W
ED:*	100% with ambient temperature range -20 C° +40 C°
Coil code: *(see page 9.012)*	S130-22P

Note: For temperature or special conditions contact our sales department.

Dimensions

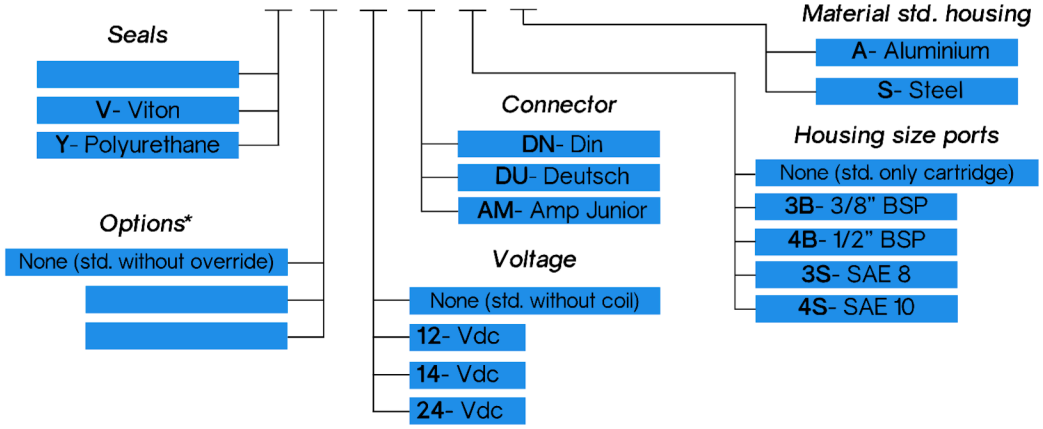
Inches
Millimeters





STANDARD HOUSING	
Ordering code:	
Material:*	Aluminium/Steel Max working pressure for aluminum body: 210 bar Max working pressure for steel body: 350 bar

Ordering Code **E10N-20**



Poppet Valves E10N-21 Electric Valve

Solenoid valve 2 ways 2 positions, poppet pilot operated, normally open.

Description

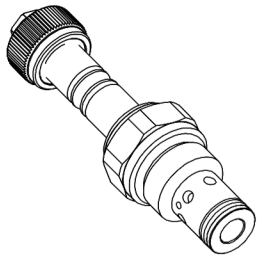
electric cartridge valve on/off designed to hold the load or block flow at high-pressure application, where low leakage is requested.

Operation mode

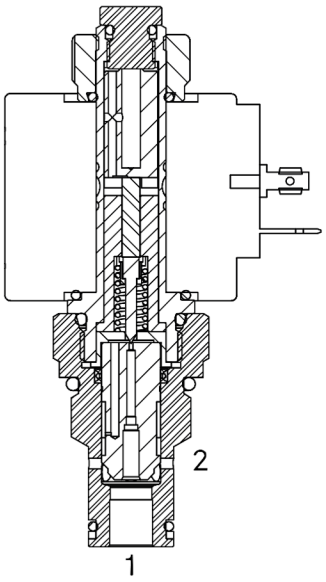
Coil Not Powered: the valve in closed position blocks the flow from 2 to 1.

General Data

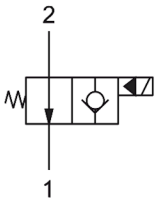
Weight without coil: 0.19kg (0,42 lbs)
Ambient temperature range: -30°C 60°C with standard seals (NBR).
Max. proof pressure: 420bar (6.090 psi).
Flow Max: 70 i/min (18.7 gpm)
Cartridge materials: high-strength steel, internal parts hardened and grinding.



Drawing

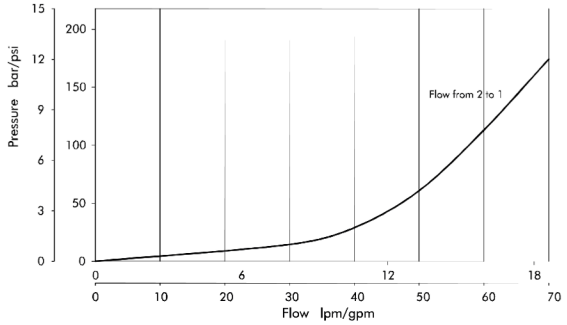


Hydraulic Symbol



Pressure drop

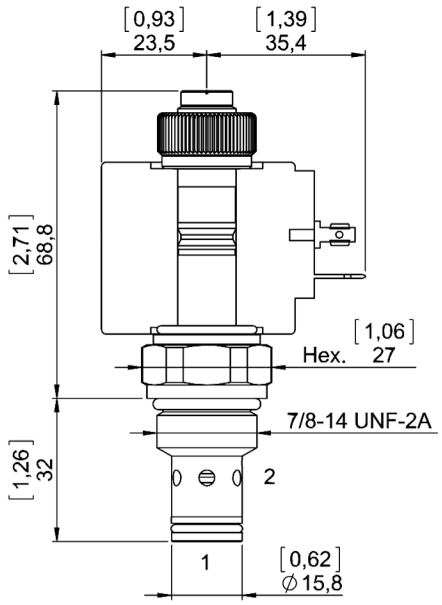
Oil viscosity: 32cSt/200 Fluid temperature: 40° C

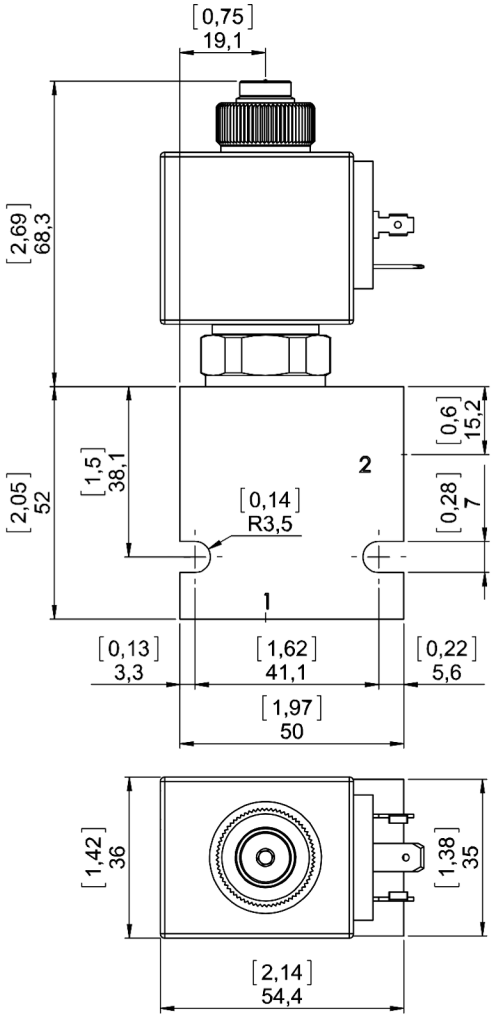


TECHNICAL DATA	
HYDRAULIC	
Max. working pressure:	350 bar (5.075 psi)
Flow rate:	min 2 l/min (0,5 gpm) max 70 l/min (18,7 gpm)
Fluid: *Viscosity:*	Mineral based oil From 15cSt to 250 cSt
Leakage:	0,25 cc/min (5 drops/min) P max. 350 bar (5.075 psi)
Standard seals:	O-ring NBR Back up ring PTFE
Cavity:	SCN1020
Installation torque:	40 N/m
Coil nut torque:	2 N/m
Max contamination level:	NAS 8 ISO 4406 19/17/14
Fluid temperature range:	From -20 to +80 C°
Fatigue cycle life:	1.000.000 cycle at 350 bar
Seal kit std.:	K102N00
ELECTRIC	
Type of voltage:	DC
Insulation index:	H
Nominal voltage:	+/- 10 %
Power at 20 C°:	22 W
ED:*	100% with ambient temperature range -20 C° +40 C°
Coil code: *(see page 9.012)*	S130-22P

***Note:** For temperature or special conditions contact our sales department.

Inches
Millimeters





STANDARD HOUSING	
Ordering code:	
Material:*	Aluminium/Steel Max working pressure for aluminum body: 210 bar Max working pressure for steel body: 350 bar

Ordering code

E10N - 21

Seals
- None (std. NBR)
- V- Viton
- Y- Polyurethane

*Options**
- None (std. without override)
- P- Push
- PT- Push and twist
- SV- Screw in

Connector
- DN- Din
- DU- Deutsch
- AM- Amp Junior

Voltage
- None (std. without coil)
- 12- Vdc
- 14- Vdc
- 24- Vdc

Material std. housing
- A- Aluminium
- S- Steel

Housing size ports
- None (std. only cartridge)
- 3B- 3/8" BSP
- 4B- 1/2" BSP
- 3S- SAE 8
- 4S- SAE 10